**States of Matter: Elements, Compounds, Mixtures**

1) List the three states of matter and describe their basic properties:

2) Classify the following as either elements, compounds, homogeneous mixtures (solutions) or heterogeneous mixtures:

a) copper (II) sulfate

b) Kool Aid

c) wood

d) plastic

e) lined paper

f) gadolinium

3) Why are homogeneous mixtures more difficult to separate than heterogeneous mixtures?

4) Why can’t elements be separated into smaller parts using chemical means?